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PTO-1390 (Rev. 12-2004)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTORNEY'S DOCKET NUMBER VTU-105883-026

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371	10/520222							
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED 02 July 2002 (02.07.02)							
PCT/US2003/020729 [02 July 2003 (02.07.2003)	02 July 2002 (02.07.02)							
stem for Improving Engine Performance and Reducing Emissions								
PPLICANT(s) FOR DO/EO/US Imes C. Juranitch and Robert D. Olschefski								
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:								
This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.								
2. This is a SECOND or SUBSEQUENT submission of items concerning a submission	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.							
3. This is an express request to begin national examination procedures (35 U.S.C. 37 (5), (6), (9) and (21) indicated below.								
4. The US has been elected (Article 31).	The US has been elected (Article 31).							
5. A copy of the International Application as filed (35 U.S.C. 371(c)(2))	A copy of the International Application as filed (35 U.S.C. 371(c)(2))							
a. is attached hereto (required only if not communicated by the Internation	a. is attached hereto (required only if not communicated by the International Bureau).							
b. has been communicated by the International Bureau.	b. has been communicated by the International Bureau.							
c. X is not required, as the application was filed in the United States Receiv	c. X is not required, as the application was filed in the United States Receiving Office (RO/US).							
6. An English language translation of the International Application as filed (35 U.S.)	C. 371(c)(2)).							
a. is attached hereto.								
b. has been previously submitted under 35 U.S.C. 154(d)(4).								
7. Amendments to the claims of the International Application under PCT Article 19	(35 U.S.C. 371(e)(3))							
a. are attached hereto (required only if not communicated by the Interna	ational Bureau).							
b. Land have been communicated by the International Bureau.	b. have been communicated by the International Bureau.							
c. Lul have not been made; however; the time limit for making such amenda	c. have not been made; however; the time limit for making such amendments has NOT expired.							
d. 🖾 have not been made and will not be made:								
An English tanguage translation of the amendments to the claims under PCT Ar	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).							
9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).							
 An English language translation of the annexes of the International Preliminary E Article 36 (35 U.S.C. 371(c)(5)). 	An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).							
Items 11 to 20 below concern document(s) or information included:								
11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.								
12. An assignment document for recording. A separate cover sheet in compliance w	rith 37 CFR 3.28 and 3.31 is included.							
13. A preliminary amendment.	A preliminary amendment.							
14. An Application Data Sheet under 37 CFR 1.76.	An Application Data Sheet under 37 CFR 1.76.							
15. A substitute specification.	A substitute specification.							
16. A power of attorney and/or change of address letter.	A power of attorney and/or change of address letter.							
17. A computer-readable form of the sequence listing in accordance with PCT Rule	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.							
18. A second copy of the published International Application under 35 U.S.C. 154(d)	A second copy of the published International Application under 35 U.S.C. 154(d)(4).							
A second copy of the English language translation of the international application	n under 35 U.S.C. 154(d)(4).							

This collection of information: Cert. of Ex. Mail - Label ER759375767US; postcard receipt

This collection of information is required by 37 CFR.1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail: Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION NO. (If known, see 37.CFR 1.5) INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET.NUMBER!				
10/52022 PCT/US2003/020729		VTU-10588-026				
21. The following fees are submitted:		Applicant use	Office use only			
X a) Basic national fee\$300.00		\$				
b) Examination fee		\$200.00	\$			
c) Search	fee			\$500.00	\$	· · · · · · · · · · · · · · · · · · ·
	TOTAL OF ABOVE CA	LCULATION	S =	\$1000.00	\$ 1,000.00	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						
Total Sheets	Extra sheets	Number of each additional 50 or fraction RATE thereof (round up to a whole number)				
- 100 =	/50 =	· .		x \$250.00	\$ —	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				om the earliest	\$ 130.00	
CLAIMS	NUMBER FIL	ED:	NUMBER EXTRA	RATE∷	\$	
Total claims	4	9 - 20 = :	29	x \$50.00	\$1,450.00	
Independent clai	ims 4	-3= 1.		x \$200.00	\$ 200.00	
MULTIPLE DEP	ENDENT CLAIM(S) (if ap	plicable)		+ \$360.00 ···	\$	
			TOTAL OF ABOVE	CALCULATIONS =	\$2,780.00	
Applicant of by 1/2.	laims small entity status.	See 37.CFR	1.27. The fees indicated ab	ove are reduced	^{\$} 1,390.00	
				SUBTOTAL =	\$1,390.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest				s		
		 	TOTAL	NATIONAL:FEE .=	\$1,390.00	
	g the enclosed assignment e cover sheet (37 CFR 3.		.21(h)): The assignment mus 10.00 per property	t be accompanied:		
TOTAL FEES ENCLOSED =				\$ 1,390.00		
•			Amou	int to be refunded:		\$
Amount to be charged				\$		
ΓXI	4.2	20.00				
a. A check in the amount of \$ 1,390.00 to cover the above fees is enclosed.						
b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.						
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-07 20. A duplicate copy of this sheet is enclosed.						
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.						
SEND ALL CORRESPONDENCE TO:						
Pohm & Monsanto PLC						
12 Rathhone Place				-		
Grosse Pointe, MI 48230 Benita J. Rohm NAME						
	28,664					
	REGISTRATION NUMBER					

Att'y. Docket No.: VTU-105883-00026

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S)	:	James C. Juranitch and Robert D. Olschefski)
SERIAL NO.	:	to be assigned))
INT'L. SER. NO.	:	PCT/US2003/20729))
FILED	:	03 January 2005 (Ex. Mail))
INT'L. FILE DATE	:	02 July 2003)
FOR	:	System for Improving Engine Performance And Reducing Emissions))

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

BY

EXPRESS MAIL

Express Mail Label Number <u>ER 759375767 US</u>
Date of Deposit: <u>03 January 2005</u>

I hereby certify that a Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning A Submission Under 35 U.S.C. 371 (Form-1390); Preliminary Amendment; and a check in the amount of \$1,390.00 for the filing fee for entry into the US national stage under 35 USC 371are being deposited under 37 CFR 1.10 as Express Mail Post Office to Addressee on the date indicated hereinabove and addressed to the Mail Stop PCT US DO/EO, Assistant Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Benita J. Rohm, Reg. No. 28,664

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